UTC Fire & Security

A United Technologies Company

TruVision Megapixel IP Dome Camera Quick Start Guide

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Introduction

This pocket guide provides basic information on setting up and using the TruVision megapixel cameras.

1.3 megapixel IP dome cameras:

- TVD-M1120-3-N 1.3 megapixel vandal-proof dome
- TVD-M1120-3-P 1.3 megapixel vandal-proof dome

2.0 megapixel IP dome cameras:

- TVD-M2110-2-N 2.0 megapixel dome
- TVD-M2110-2-P 2.0 megapixel dome
- TVD-M2110V-3-N 2.0 megapixel vandal-proof dome
- TVD-M2110V-3-P 2.0 megapixel vandal-proof dome

Package contents

The camera is shipped with the following items:

- Camera
- Multilingual Quick Start Guide
- CD with User Manual in several languages

Installation environment

Refer to the user manual for detailed information, but observe these important requirements:

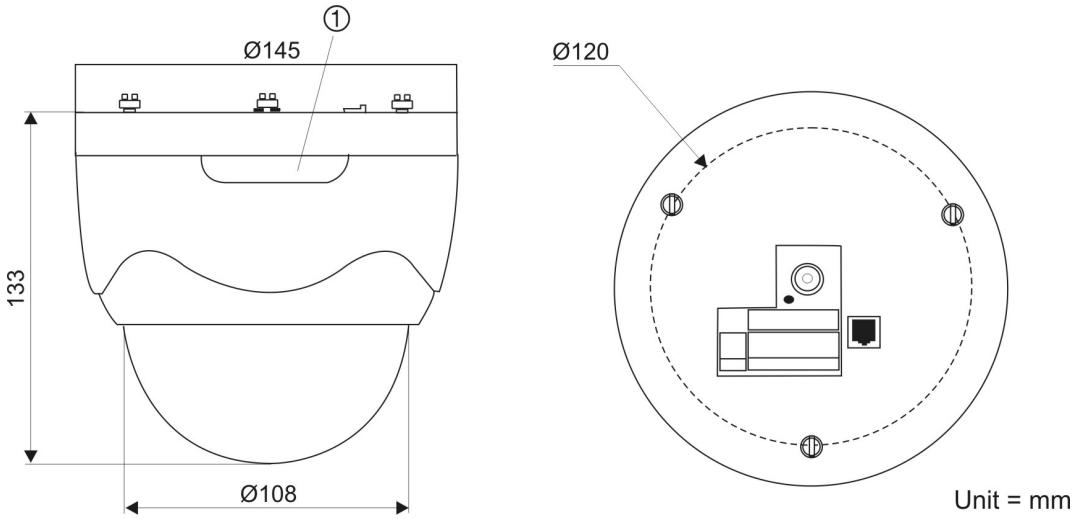
- Place the camera in a secure location.
- Ensure that the camera is in a well-ventilated area.
- Do not expose the camera to rain or moisture.

Cable requirements

Cable type	Requirements
Data	For RS-485: 22 gauge (0.64 mm) shielded, two-conductor, twisted-pair (STP) cable
Video	75 ohm coaxial cable with BNC ends
Power	24 VAC cable

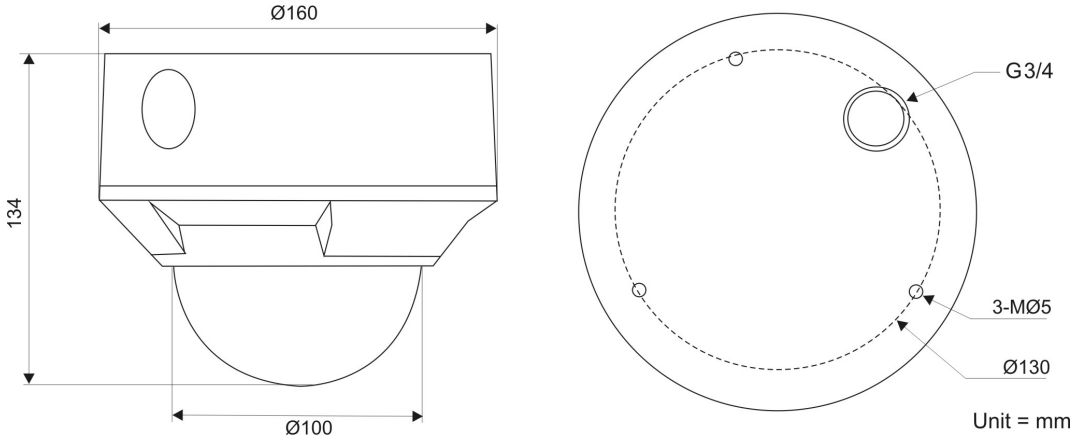
Camera dimensions

Figure 1: Megapixel IP dome camera



1. SDHC card slot

Figure 2: Vandal-proof megapixel IP dome camera



Setting up the camera

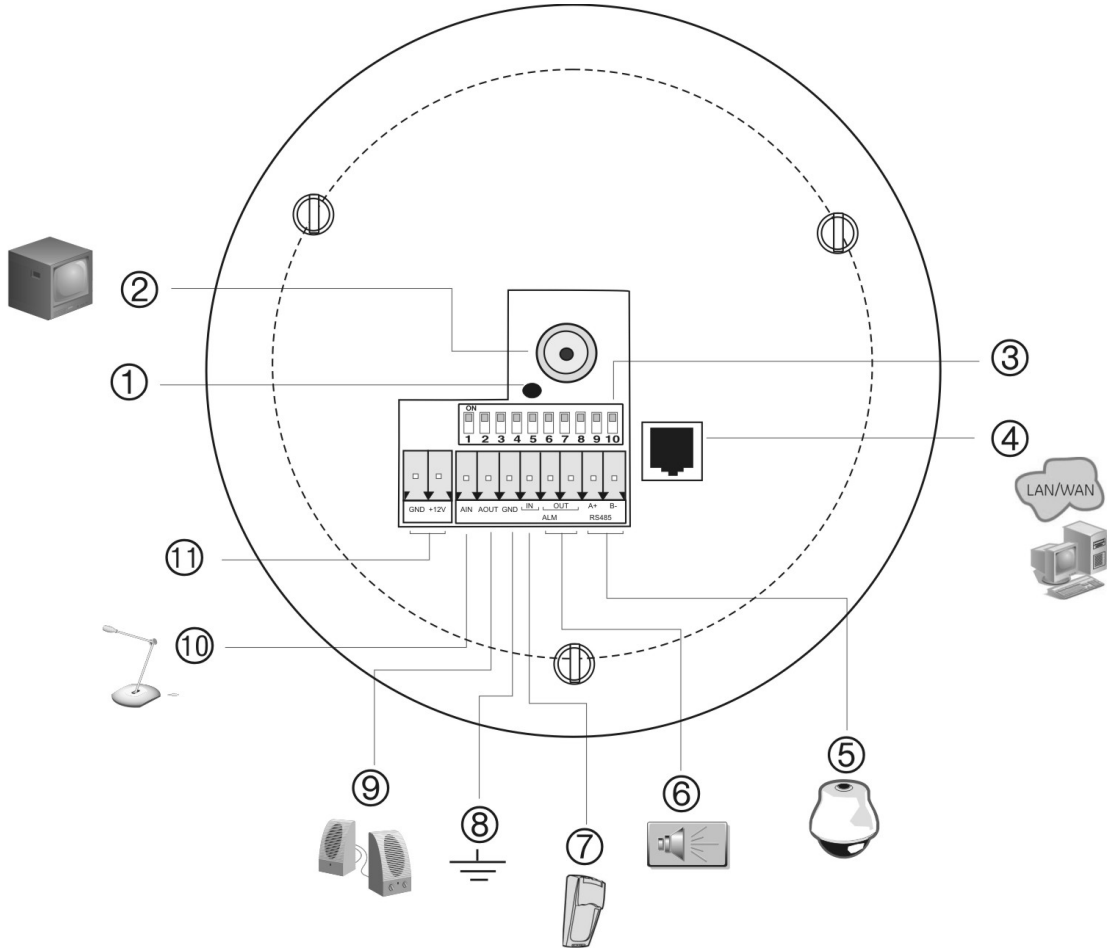
Note: If the light source where the camera is installed experiences rapid, wide variations in lighting, the camera may not operate as intended.

For detailed instructions, please refer to the user manual.

To quickly put the camera into operation:

1. Prepare the mounting surface.
2. Set the DIP switches to the desired positions and connect the power cable, alarm I/O cables, RS-485 cable, audio cables and network cable to the camera.
3. Mount the camera to the wall/ceiling using the appropriate fasteners.
4. Set up the camera's network and streaming parameters so that the camera can be controlled over the network.
5. Program the camera to suit its location.

Figure 3: Megapixel IP dome camera connections



1. Power supply LED.
2. Video output.. Connect to a CCTV monitor
3. DIP switches. Set the DIP switch addresses
4. Ethernet RJ45 PoE port. Connect to network devices.
5. RS-485 A+, B-. Connect to an RS-485 device such as a PTZ dome camera.
6. Alarm output . Connect to an alarm output device.
7. Alarm input. Connect to an alarm input device.
8. Ground. Connect to ground.

9. Audio output. Connect to an audio output..
10. Audio input. Connect to an audio input.
11. Power supply. Connect +12 VDC or +24 VAC power supply.

Setting the DIP switch addresses

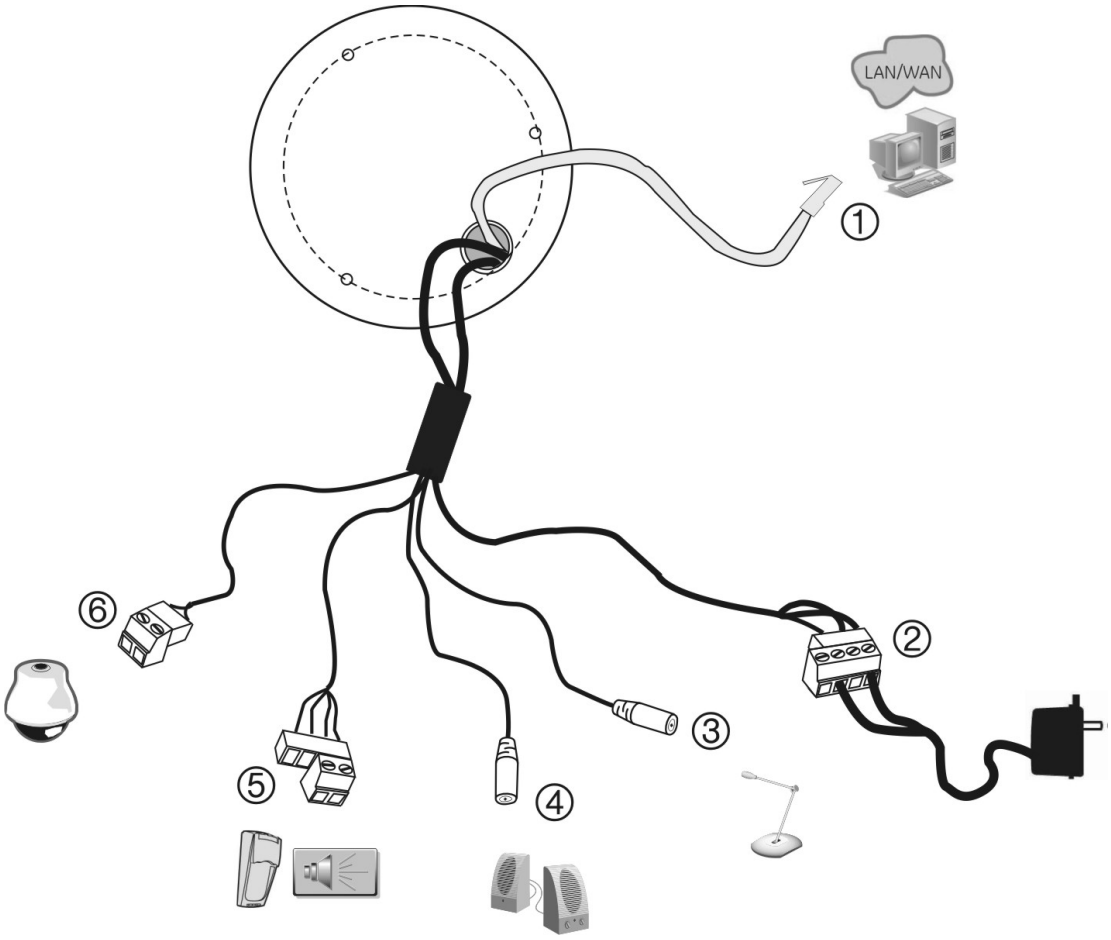
Switches 6 to 10 are not used at this time, so it does not matter whether they are set to on or off.

Table 1: DIP switch address

DIP switch	Function	
	ON	OFF
1	Sharp image	Soft image
2	Automatic exposure (AES)	Auto iris (AI)
3	BLC	Off
4	Flickerless control	Off
5	Normal automatic gain control (NAGC)	Super automatic gain control (SAGC)

Vandal-proof megapixel IP dome camera connections

Figure 4: Vandal-proof megapixel IP dome camera connections



1. Ethernet RJ45 PoE connector. Connect to the network devices.
2. Power supply cord. Connect +12 VDC or +24 VAC power supply.
3. Audio input jack. Connect to an audio input.
4. Audio output jack. Connect to an audio output.
5. Alarm I/O cable. Connect alarm input (IN, G) and output
6. RS-485 A+, B-. Connect to an RS-485 device such as a PTZ dome camera.

Mounting the dome cameras to a wall or ceiling

Please refer to the User Manual for detailed instructions.

Accessing the camera over the internet

The camera Web browser lets you view, record, and play back recorded videos as well as manage the camera from any PC with Internet access.

To access the camera online:

1. In the Web browser enter the camera's IP address. Use the tool, *IP Finder*, enclosed on the CD to find the IP address of the camera (default is 192.0.0.64).

   The Login dialog box appears.

7. Enter your user name and password.

   User name: *admin*

   Password: *1234*

   Click **OK**. The Web browser window appears in live mode. See Figure 5 on page 11.

   Note: The live screen is initially blank. You must click the **Start Live View** icon on the bottom of the screen for the live mode images to appear on-screen.

Overview of the Web browser window

Figure 5: Web browser interface

1. **Menu toolbar**. Lets you do the following:

	Log on and log off the system. This can only be done in live mode.
	View live video.
	Play back video.
	Search for event logs. There are four main information types: All, Alarm, Notification and Operation.
	Configure settings.

Note: The Playback and Log functions can only be used when an SDHC card is inserted in the camera.

2. **Viewer**. View live or playback video.

3. **PTZ controls**. Lets you control a PTZ camera when connected using RS-485 port. Also used to access main menu via “Preset 95” to configure the camera.
4. **Video image settings**. Adjust video image settings such as brightness, contrast, saturation, and hue.
5. **Audio setting**. Turn bi-directional audio on or off.
6. **Video function**. Lets you do the following:

	Record live video.
	Take a snapshot of the video.
	Start live view.

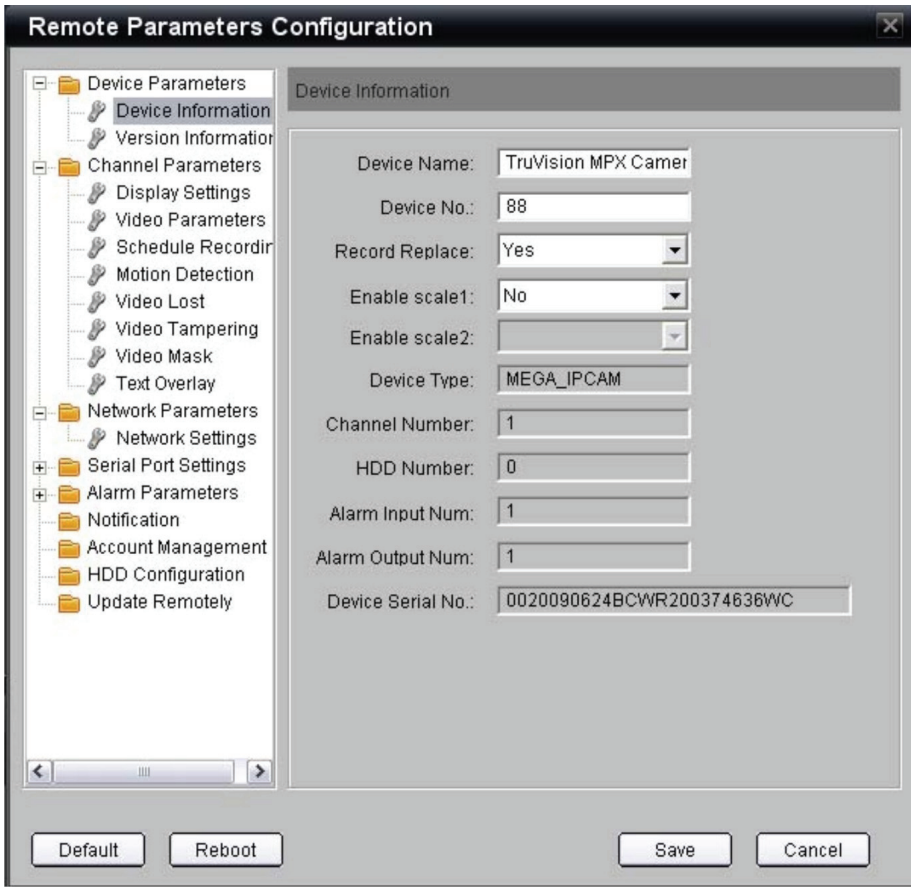
7. **Camera**. View video and record video from this camera.

Network and streaming configuration

Once the camera hardware has been installed, the camera can then be configured over the network.

In the camera browser screen click the **Config** button in the menu toolbar to get the configuration screens. There are 10 folders running down the left side of the screen and each folder has a list of subfolders which display the different configuration screens. See the Figure 6 on page 13 for an example.

Figure 6: Example of a configuration screen - Device parameters



Note: The On-screen display (OSD) menus are in English only.

Table 2: Overview of the configuration parameters

Configuration folder	Description
Device information	Defines the device name and number as well as enables the overwrite and video scaler options.
Channel parameters	Defines the OSD properties of camera information, recording schedule, recording settings for alarm events, alarm response, and overlay text.
Network parameters	Defines the network parameters required to access the camera over the internet.
Serial port settings	Defines the RS485 communication settings.

Configuration folder	Description
Alarm parameters	Defines how the camera handles alarms such as input type, notification of alarms, and response schedules and duration.
Notification parameters	Defines the methods to be used to alert for internal errors in the system.
User management	Defines who can use the camera, their passwords and access privileges.
HDD configuration	Defines how to format the SDD card used in the camera.
Upgrade remotely	Defines how to upgrade the camera's firmware.

Configuring the camera

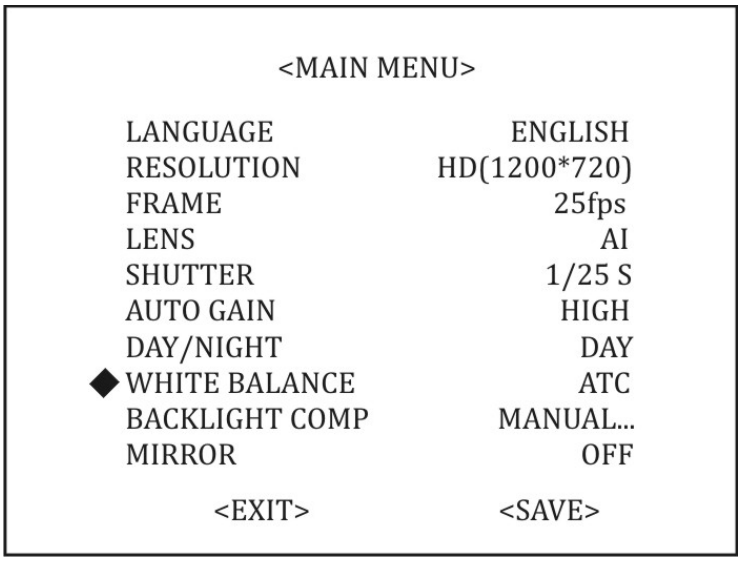
The cameras are programmed through an on-screen (OSD) menu. This main menu lets you set up the camera image to suit your installation.

To access the main menu:

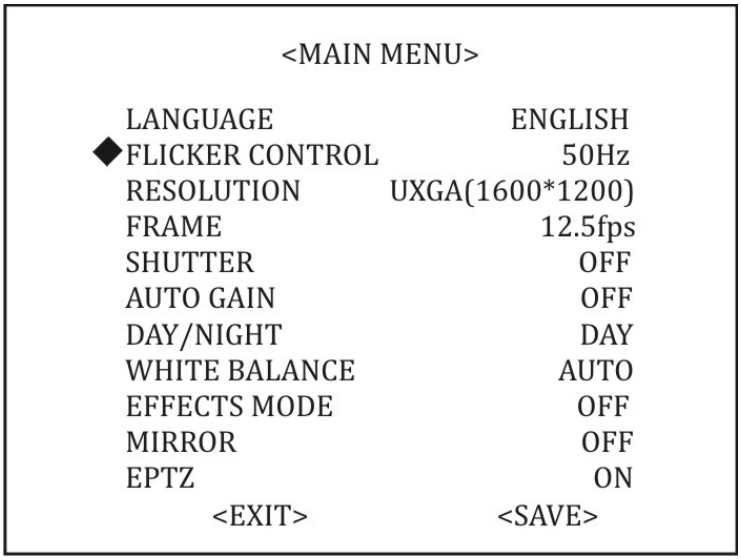
1. Open the browser and enter the camera IP address to connect to the camera. Use the tool, *IP Finder*, enclosed on the CD to find the IP address of the camera.
2. Enter your user name and password in the Login box and click **OK**. The Web browser screen appears in live mode.
3. From the preset drop-down list in the PTZ control section of the Web browser screen select preset number **95**. The main menu appears.

Refer to the User Manual for detailed information on configuring the cameras.

1.3 megapixel dome camera main menu



2.0 megapixel dome camera main menu



Specifications

Operating temperature	-10 to +60 ℃(14 to 140 ˚F)
Power supply	24 VAC ±10% / 12VDC ±10%, PoE (Power over Ethernet)
Power consumption	4 W max. (10 W max. with ICR working)
Dimensions	**1.3 megapixel IP dome camera:** 68 × 63 × 158 mm (2.71 x 2.48 x 6.25 inches) **2.0 megapixel IP dome camera:** 160 × 134 mm (6.30 x 5.27 inches)
Weight	600 g (1.32 lbs)